

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A process for purifying a phosphodiesterase 1 (PDE-1) from a cell including heating an extract of a cell formed from a solution including at least one divalent cation, to increase the specific activity of PDE-1 in the extract, wherein the concentration of the divalent cation is about 10 to 50 mM.

2. (Original) A process according to claim 1 wherein the divalent cation is magnesium or calcium.

3-5. (Canceled)

6. (Currently amended) A process according to claim 5 claim 1 wherein the concentration of the divalent cation is about 50 mM.

7. (Original) A process according to claim 1 wherein the extract is heated to a temperature that permits depletion of phosphomonoesterase activity from the extract.

8. (Original) A process according to claim 7 wherein the extract is heated to less than 80°C.

9. (Original) A process according to claim 8 wherein the extract is heated to between about 45 and 75°C.

10. (Original) A process according to claim 9 wherein the extract is heated to about 60°C.

11. (Currently amended) A process for purifying PDE-1 from a barley cell including: releasing PDE-1 from the cell into a solution including about 10 to 50 mM calcium and about 10 to 50 mM magnesium to form an extract; and heating the extract to between about 45 to 70°C to increase the specific activity of PDE-1 in the extract.

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12. (Currently amended) A process according to claim 11 wherein the extract is maintained in conditions for promoting solubilisation solubilization of the phosphodiesterase in the extract prior to heating the extract.

13. (Original) A process according to claim 12 wherein the extract is maintained at less than 10°C.

14. (Original) A process according to claim 13 wherein the extract is maintained at between 0 to about 4°C.

15. (Currently amended) A process according to claim 11 comprising the further step of:

utilising utilizing chromatography to purify PDE-1 from the heated extract.

16. (Currently amended) A process according to claim 15 wherein anion exchange chromatography is utilised utilized to purify PDE-1 from the heated extract.

17. (Withdrawn) A PDE-1 purified by a process according to claim 1.

18. (Withdrawn) A cell including PDE-1 according to claim 17.

19. (Withdrawn) A process for producing a ribonucleotide including contacting a polyribonucleotide with a PDE-1 according to claim 17 to produce the ribonucleotide.

20. (Withdrawn) A ribonucleotide produced by a process according to claim 19.

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